

Epidemiology and Prevention of Vaccine-Preventable Diseases 2007 Session 3

Case Study 1: Amina

Background

- 3 year old Sudanese orphan
- It is her first visit to your office, in November
- 5th percentile weight for age but otherwise appears healthy
- HIV positive; T-lymphocyte percentage is 12%
(normal range 32%-68%)
- unknown history of chickenpox

Vaccination history (translated from Arabic)

OPV at birth, 4, 5, 10, 16, and 18 months of age
DTP vaccine at 4, 5, and 10 months of age
Measles vaccine at 10 months of age
Hepatitis B vaccine 4 months of age.

Questions

What vaccine(s) does Amina need today?

Does she have any contraindications to the vaccine(s) she needs today?

When should Amina return, and what vaccine(s) should she receive at the next visit

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Case Study 2: Hank

Background

- 61 year old aerospace engineer beginning second career as an aide in a children's hospital
- Psoriatic arthritis diagnosed 6 months ago; treated with etanercept (Enbrel[®]) twice a week
- Severe varicella at age 22, required hospitalization
- Mumps outbreak in the community served by the hospital

Vaccination history

Childhood vaccination record lost

One month ago:

- influenza vaccine (TIV)
- 3rd dose of hepatitis B vaccine

One year ago:

Td (only documented dose)

MMR (only documented dose)

Questions

What vaccine(s) does Hank need today?

Are there any contraindications for the vaccine(s) he needs today?

Is any serologic testing indicated?